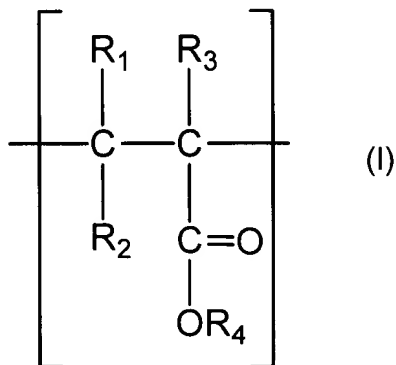


**WHAT IS CLAIMED IS:**

1. A composition comprising:

(a) at least one cationic homopolymer comprising repeating units of formula

(I):



wherein:

- $R_1$ ,  $R_2$ , and  $R_3$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- $R_4$  is chosen from groups comprising at least one quaternary amino group;

(b) at least one fatty alcohol;

(c) at least one alkoxyated fatty alcohol;

(d) at least one fatty amide; and

(e) at least one oxidizing agent.

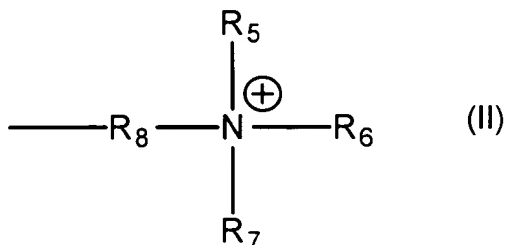
2. The composition according to claim 1, wherein said composition is

physically stable.

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8. The composition according to claim 1, wherein, in the definition of  $R_4$ , said groups comprising at least one quaternary amino group are chosen from compounds of formula (II):



wherein:

- $R_5$ ,  $R_6$  and  $R_7$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- $R_8$  is chosen from alkylene groups and alkenylene groups.

9. The composition according to claim 8, wherein said alkyl groups of  $R_5$ ,  $R_6$ , and  $R_7$  are chosen from linear  $C_1$  to  $C_{20}$  alkyl groups, branched  $C_1$  to  $C_{20}$  alkyl groups, and cyclic  $C_1$  to  $C_{20}$  alkyl groups, and further wherein said  $C_1$  to  $C_{20}$  alkyl groups are optionally substituted.

10. The composition according to claim 8, wherein said alkenyl groups of  $R_5$ ,  $R_6$ , and  $R_7$  are chosen from linear  $C_1$  to  $C_{20}$  alkenyl groups, branched  $C_1$  to  $C_{20}$  alkenyl groups, and cyclic  $C_1$  to  $C_{20}$  alkenyl groups, and further wherein said  $C_1$  to  $C_{20}$  alkenyl groups are optionally substituted.

11. The composition according to claim 8, wherein said alkylene groups of  $R_8$  are chosen from linear  $C_1$  to  $C_{20}$  alkylene groups, branched  $C_1$  to  $C_{20}$  alkylene groups, and cyclic  $C_1$  to  $C_{20}$  alkylene groups, and further wherein said  $C_1$  to  $C_{20}$  alkylene groups are optionally substituted.

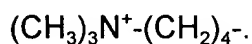
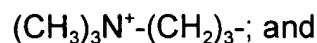
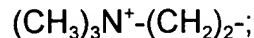
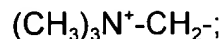
12. The composition according to claim 8, wherein said alkenylene groups of  $R_8$  are chosen from linear  $C_1$  to  $C_{20}$  alkenylene groups, branched  $C_1$  to  $C_{20}$  alkenylene groups and cyclic  $C_1$  to  $C_{20}$  alkenylene groups, and further wherein said  $C_1$  to  $C_{20}$  alkenylene groups are optionally substituted.

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13. The composition according to claim 8, wherein said groups comprising at least one quaternary amino group are chosen from:



14. The composition according to claim 8, wherein  $\text{R}_5$  is a methyl group,  $\text{R}_6$  is a methyl group,  $\text{R}_7$  is an alkyl group chosen from linear unsubstituted  $\text{C}_2$  to  $\text{C}_{10}$  alkyl groups, and  $\text{R}_8$  is an alkylene group chosen from linear unsubstituted  $\text{C}_2$  to  $\text{C}_{10}$  alkylene groups.

15. The composition according to claim 8, wherein  $\text{R}_5$ ,  $\text{R}_6$ , and  $\text{R}_7$  are each a methyl group, and  $\text{R}_8$  is an alkylene group chosen from linear  $\text{C}_2$  to  $\text{C}_{10}$  alkenylene groups, branched  $\text{C}_2$  to  $\text{C}_{10}$  alkenylene groups and cyclic  $\text{C}_2$  to  $\text{C}_{10}$  alkenylene groups.

16. The composition according to claim 1, wherein said at least one cationic homopolymer is chosen from polyquaternium-37 homopolymers.

17. The composition according to claim 1, wherein said at least one fatty alcohol comprises at least 8 carbon atoms.

18. The composition according to claim 17, wherein said at least one fatty alcohol comprises at least 10 carbon atoms.

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19. The composition according to claim 18, wherein said at least one fatty alcohol comprises at least 12 carbon atoms.

20. The composition according to claim 1, wherein said at least one fatty alcohol is chosen from C<sub>9</sub>-C<sub>11</sub> alcohols, C<sub>12</sub>-C<sub>13</sub> alcohols, C<sub>12</sub>-C<sub>15</sub> alcohols, C<sub>12</sub>-C<sub>16</sub> alcohols, and C<sub>14</sub>-C<sub>15</sub> alcohols.

21. The composition according to claim 1, wherein said at least one fatty alcohol is chosen from arachidyl alcohol, behenyl alcohol, caprylic alcohol, cetearyl alcohol, cetyl alcohol, coconut alcohol, decyl alcohol, hydrogenated tallow alcohol, jojoba alcohol, lauryl alcohol, myristyl alcohol, oleyl alcohol, palm alcohol, palm kernel alcohol, stearyl alcohol, tallow alcohol, and tridecyl alcohol.

22. The composition according to claim 1, wherein said at least one alkoxyated fatty alcohol is chosen from fatty alcohols comprising at least one polyethylene glycol ether.

23. The composition according to claim 1, wherein said at least one alkoxyated fatty alcohol comprises at least 8 carbon atoms.

24. The composition according to claim 23, wherein said at least one alkoxyated fatty alcohol comprises at least 10 carbon atoms.

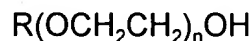
25. The composition according to claim 24, wherein said at least one alkoxyated fatty alcohol comprises at least 12 carbon atoms.

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26. The composition according to claim 1, wherein said at least one alkoxyated fatty alcohol is chosen from ethoxylated fatty alcohols of the formula



wherein:

- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and

- n ranges from 2 to 100 .

27. The composition according to claim 26, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

28. The composition according to claim 26, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkenyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkenyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkenyl groups.

29. The composition according to claim 1, wherein said at least one alkoxyated fatty alcohol is chosen from alkoxy esters of polyglyceryl of formula



and alkoxy esters of polyglyceryl of formula



wherein:

- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted;
- R' is chosen from H; linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and
- n ranges from 1 to 30,

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with the proviso that at least one of said R' is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted, and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted.

30. The composition according to claim 29, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

31. The composition according to claim 29, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkenyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkenyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkenyl groups.

32. The composition according to claim 1, wherein said at least one alkoxylated fatty alcohol is chosen from cetareth-2, cetareth-3, cetareth-4, cetareth-5, cetareth-6, cetareth-7, cetareth-8, cetareth-9, cetareth-10, cetareth-11, cetareth-12, cetareth-13, cetareth-14, cetareth-15, cetareth-16, cetareth-17, cetareth-18, cetareth-20, cetareth-22, cetareth-23, cetareth-24, cetareth-25, cetareth-27, cetareth-28, cetareth-29, cetareth-30, cetareth-33, cetareth-34, cetareth-40, cetareth-50, cetareth-55, cetareth-60, cetareth-80,

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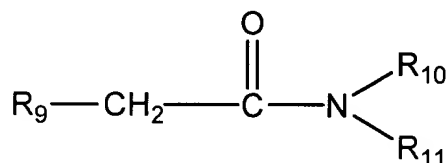
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ceteareth-100, laureth-1, laureth-2, laureth-3, laureth-4, laureth-5, laureth-6, laureth-7, laureth-8, laureth-9, laureth-10, laureth-11, laureth-12, laureth-13, laureth-14, laureth-15, laureth-16, laureth-20, laureth-23, laureth-25, laureth-30, laureth-40, deceth-3, deceth-5, oleth-5, oleth-30, steareth-2, steareth-10, steareth-20, steareth-100, cetylsteareth-12, cetareth-5, cetareth-5, polyglyceryl 4-lauryl ether, polyglyceryl 4-oleyl ether, polyglyceryl 2-oleyl ether, polyglyceryl 2-cetyl ether, polyglyceryl 6-cetyl ether, polyglyceryl 6-oleylcetyl ether, polyglyceryl 6-octadecyl ether, C<sub>9</sub>-C<sub>11</sub> pareth-3, C<sub>9</sub>-C<sub>11</sub> pareth-6, C<sub>11</sub>-C<sub>15</sub> pareth-3, C<sub>11</sub>-C<sub>15</sub> pareth-5, C<sub>11</sub>-C<sub>15</sub> pareth-12, C<sub>11</sub>-C<sub>15</sub> pareth-20, C<sub>12</sub>-C<sub>15</sub> pareth-9, C<sub>12</sub>-C<sub>15</sub> pareth-12, and C<sub>22</sub>-C<sub>24</sub> pareth-33.

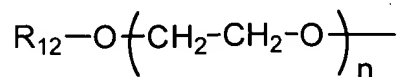
33. The composition according to claim 1, wherein said at least one fatty amide is chosen from fatty amides of formula



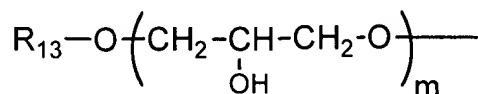
wherein:

- R<sub>9</sub> is chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; linear alkenyl groups comprising at least 4 carbon atoms, branched

alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted; and alkoxyated alkyl groups of formulae



and



wherein:

- $R_{12}$  and  $R_{13}$ , which may be identical or different, are each chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 4 carbon atoms, branched alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted;
- $n$  ranges from 1 to 10; and
- $m$  ranges from 1 to 6; and

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linear alkyl groups, branched alkyl groups and cyclic alkyl groups, wherein said alkyl groups are optionally substituted; and linear alkenyl groups, branched alkenyl groups and cyclic alkenyl groups, wherein said alkenyl groups are optionally substituted.

35. The composition according to claim 33, wherein  $R_{10}$  and  $R_{11}$  are each chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups, wherein said  $C_1$  to  $C_{22}$  alkyl groups are optionally substituted; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said  $C_1$  to  $C_{22}$  alkenyl groups are optionally substituted.

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alkyl groups and said alkenyl groups are substituted with at least one hydroxyl group.

37. The composition according to claim 33, wherein at least one of said  $R_{10}$  and said  $R_{11}$  is chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said alkyl groups further comprise at least one ether group in the alkyl chain, and further wherein said alkenyl groups further comprise at least one ether group in the alkenyl chain.

38. The composition according to claim 1, wherein said at least one fatty amide is chosen from behenamide, cetyl-PG hydroxyethyl decanamide, cetyl-PG hydroxyethyl palmitamide, cocamide, dibutyl lauroyl glutamide, distearyl phthalic acid amide, lauramide, lauroyl methyl glucamide, myristoyl-PG hydroxyethyl decanamide, oleyl palmitamide, stearamide, tallow amide, trideceth-2 carboxamide monoethanolamine (trideceth-2 carboxamide MEA), trideceth-2 carboxamide diethanolamine (trideceth-2 carboxamide DEA), trideceth-2 carboxamide monoisopropanolamine (trideceth-2 carboxamide MIPA), and polyalkoxylated fatty amides.

39. The composition according to claim 38, wherein said polyalkoxylated

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45. The composition according to claim 44, wherein said at least one fatty alcohol is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

46. The composition according to claim 1, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

47. The composition according to claim 46, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

48. The composition according to claim 47, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.2% to 2% by weight relative to the total weight of the composition.

49. The composition according to claim 1, wherein said at least one fatty amide is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

50. The composition according to claim 49, wherein said at least one fatty amide is present in an amount ranging from 0.1% to 8% by weight relative to the total weight of the composition.

51. The composition according to claim 50, wherein said at least one fatty amide is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

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52. The composition according to claim 1, wherein said at least one oxidizing agent is chosen from hydrogen peroxides, bromate salts, percarbonate salts, perborate salts and enzymes.

53. The composition according to claim 1, wherein said at least one oxidizing agent is present in an amount ranging from 0.1% to 20.0% by weight relative to the total weight of the composition.

54. The composition according to claim 53, wherein said at least one oxidizing agent is present in an amount ranging from 0.5% to 12% by weight relative to the total weight of the composition.

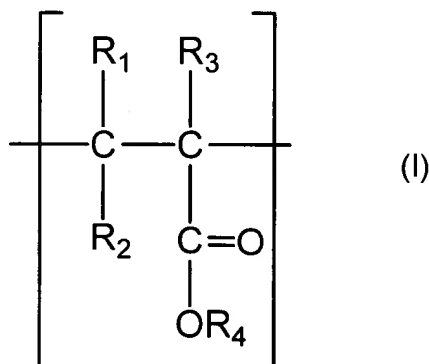
55. The composition according to claim 1, further comprising at least one adjuvant chosen from anionic surfactants; cationic surfactants; nonionic surfactants other than said at least one alkoxyated fatty alcohol, said at least one fatty alcohol, and said at least one fatty amide; amphoteric surfactants; anionic polymers; cationic polymers other than said at least one cationic homopolymer comprising repeating units of formula (I); nonionic polymers; amphoteric polymers other than said at least one cationic homopolymer comprising repeating units of formula (I); inorganic thickeners; organic thickeners; conditioners; chelating agents; antioxidants; stabilizing agents; propellants; sequestering agents; emollients; humectants; fragrances; acidifying agents; basifying agents; moisturizing agents; vitamins; essential fatty acids; proteins; protein derivatives; preservatives; and opacifiers.

56. The composition according to claim 1, wherein said composition is in a form chosen from an aqueous emulsion, a suspension, a dispersion, an aerosol foam, a cream, a lotion, a solution, a paste, a gel, a spray, and a hydroalcoholic lotion.

57. A method for providing physical stability to an oxidizing composition comprising:

including in said oxidizing composition:

(a) at least one cationic homopolymer comprising repeating units of formula (I):



wherein:

- $R_1$ ,  $R_2$ , and  $R_3$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- $R_4$  is chosen from groups comprising at least one quaternary amino group;

(b) at least one fatty alcohol;



(d) at least one fatty amide;

58. The method according to claim 57, wherein said alkyl groups of R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkyl groups, branched C<sub>1</sub> to C<sub>20</sub> alkyl groups, and cyclic C<sub>1</sub> to C<sub>20</sub> alkyl groups, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkyl groups are optionally substituted.

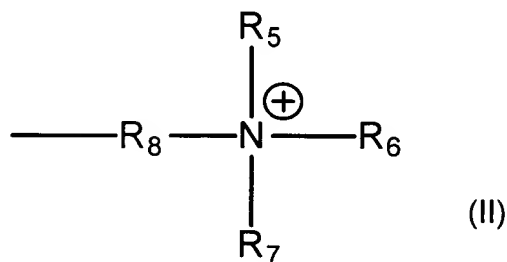
59. The method according to claim 57, wherein said alkenyl groups of R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkenyl groups, branched C<sub>1</sub> to C<sub>20</sub> alkenyl groups, and cyclic C<sub>1</sub> to C<sub>20</sub> alkenyl groups, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkenyl groups are optionally substituted.

60. The method according to claim 57, wherein R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> are each H.

61. The method according to claim 57, wherein R<sub>1</sub> is H, R<sub>2</sub> is H and R<sub>3</sub> is CH<sub>3</sub>.

62. The method according to claim 57, wherein, in the definition of R<sub>4</sub>, said groups comprising at least one quaternary amino group are chosen from C<sub>1</sub> to C<sub>20</sub> alkyl quaternary amino groups.

63. The method according to claim 57, wherein, in the definition of R<sub>4</sub>, said groups comprising at least one quaternary amino group are chosen from compounds of formula (II):



wherein:

- R<sub>5</sub>, R<sub>6</sub> and R<sub>7</sub>, which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- R<sub>8</sub> is chosen from alkylene groups and alkenylene groups.

64. The method according to claim 63, wherein said alkyl groups of R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkyl groups, branched C<sub>1</sub> to C<sub>20</sub> alkyl groups, and cyclic C<sub>1</sub> to C<sub>20</sub> alkyl groups, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkyl groups are optionally substituted.

65. The method according to claim 63, wherein said alkenyl groups of R<sub>5</sub>, R<sub>6</sub>, and R<sub>7</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkenyl chains, branched C<sub>1</sub> to C<sub>20</sub>

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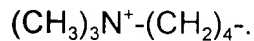
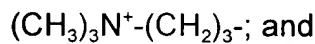
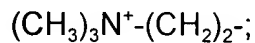
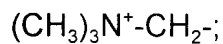
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alkenyl chains, and cyclic C<sub>1</sub> to C<sub>20</sub> alkenyl chains, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkenyl groups are optionally substituted.

66. The method according to claim 63, wherein said alkylene groups of R<sub>8</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkylene groups, branched C<sub>1</sub> to C<sub>20</sub> alkylene groups, and cyclic C<sub>1</sub> to C<sub>20</sub> alkylene groups, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkylene groups are optionally substituted.

67. The method according to claim 63, wherein said alkenylene groups of R<sub>8</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkenyl chains, branched C<sub>1</sub> to C<sub>20</sub> alkenyl chains, and cyclic C<sub>1</sub> to C<sub>20</sub> alkenyl chains, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkenyl groups are optionally substituted.

68. The method according to claim 63, wherein said groups comprising at least one quaternary amino group are chosen from:



69. The method according to claim 63, wherein R<sub>5</sub> is a methyl group, R<sub>6</sub> is a methyl group, R<sub>7</sub> is an alkyl group chosen from linear unsubstituted C<sub>2</sub> to C<sub>10</sub> alkyl groups, and R<sub>8</sub> is an alkylene group chosen from linear unsubstituted C<sub>2</sub> to C<sub>10</sub> alkylene groups.

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70. The method according to claim 63, wherein  $R_5$ ,  $R_6$ , and  $R_7$  are each a methyl group, and  $R_8$  is an alkylene group chosen from  $C_2$  to  $C_{10}$  alkylene groups.

71. The method according to claim 57, wherein said at least one cationic homopolymer is chosen from polyquaternium-37 homopolymers.

72. The method according to claim 57, wherein said at least one fatty alcohol comprises at least 8 carbon atoms.

73. The method according to claim 72, wherein said at least one fatty alcohol comprises at least 10 carbon atoms.

74. The method according to claim 73, wherein said at least one fatty alcohol comprises at least 12 carbon atoms.

75. The method according to claim 57, wherein said at least one fatty alcohol is chosen from  $C_9$ - $C_{11}$  alcohols,  $C_{12}$ - $C_{13}$  alcohols,  $C_{12}$ - $C_{15}$  alcohols,  $C_{12}$ - $C_{16}$  alcohols, and  $C_{14}$ - $C_{15}$  alcohols.

76. The method according to claim 57, wherein said at least one fatty alcohol is chosen from arachidyl alcohol, behenyl alcohol, caprylic alcohol, cetearyl alcohol, cetyl alcohol, coconut alcohol, decyl alcohol, hydrogenated tallow alcohol, jojoba alcohol, lauryl alcohol, myristyl alcohol, oleyl alcohol, palm alcohol, palm kernel alcohol, stearyl alcohol, tallow alcohol, and tridecyl alcohol.

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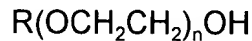
77. The method according to claim 57, wherein said at least one alkoxyated fatty alcohol is chosen from fatty alcohols comprising at least one polyethylene glycol ether.

78. The method according to claim 57, wherein said at least one alkoxyated fatty alcohol comprises at least 8 carbon atoms.

79. The method according to claim 78, wherein said at least one alkoxyated fatty alcohol comprises at least 10 carbon atoms.

80. The method according to claim 79, wherein said at least one alkoxyated fatty alcohol comprises at least 12 carbon atoms.

81. The method according to claim 57, wherein said at least one alkoxyated fatty alcohol is chosen from ethoxylated fatty alcohols of formula



wherein:

- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and

- n ranges from 2 to 100 .

82. The method according to claim 81, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

83. The method according to claim 81, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkenyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkenyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkenyl groups.

84. The method according to claim 57, wherein said at least one alkoxylated fatty alcohol is chosen from alkoxy esters of polyglyceryl of formula



and alkoxy esters of polyglyceryl of formula



- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted;

- R' is chosen from H; linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and
- n ranges from 1 to 30,

with the proviso that at least one of said R' is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted.

85. The method according to claim 84, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

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86. The composition according to claim 84, wherein R is chosen from linear  $C_8$  to  $C_{22}$  alkenyl groups, branched  $C_8$  to  $C_{22}$  alkenyl groups, and cyclic  $C_8$  to  $C_{22}$  alkenyl groups.

87. The method according to claim 57, wherein said at least one alkoxyated fatty alcohol is chosen from cetareth-2, cetareth-3, cetareth-4, cetareth-5, cetareth-6, cetareth-7, cetareth-8, cetareth-9, cetareth-10, cetareth-11, cetareth-12, cetareth-13, cetareth-14, cetareth-15, cetareth-16, cetareth-17, cetareth-18, cetareth-20, cetareth-22, cetareth-23, cetareth-24, cetareth-25, cetareth-27, cetareth-28, cetareth-29, cetareth-30, cetareth-33, cetareth-34, cetareth-40, cetareth-50, cetareth-55, cetareth-60, cetareth-80, cetareth-100, laureth-1, laureth-2, laureth-3, laureth-4, laureth-5, laureth-6, laureth-7, laureth-8, laureth-9, laureth-10, laureth-11, laureth-12, laureth-13, laureth-14, laureth-15, laureth-16, laureth-20, laureth-23, laureth-25, laureth-30, laureth-40, deceth-3, deceth-5, oleth-5, oleth-30, steareth-2, steareth-10, steareth-20, steareth-100, cetylsteareth-12, cetareth-5, cetareth-5, polyglyceryl 4-lauryl ether, polyglyceryl 4-oleyl ether, polyglyceryl 2-oleyl ether, polyglyceryl 2-cetyl ether, polyglyceryl 6-cetyl ether, polyglyceryl 6-oleylcetyl ether, polyglyceryl 6-octadecyl ether,  $C_9$ - $C_{11}$  pareth-3,  $C_9$ - $C_{11}$  pareth-6,  $C_{11}$ - $C_{15}$  pareth-3,  $C_{11}$ - $C_{15}$  pareth-5,  $C_{11}$ - $C_{15}$  pareth-12,  $C_{11}$ - $C_{15}$  pareth-20,  $C_{12}$ - $C_{15}$  pareth-9,  $C_{12}$ - $C_{15}$  pareth-12, and  $C_{22}$ - $C_{24}$  pareth-33.

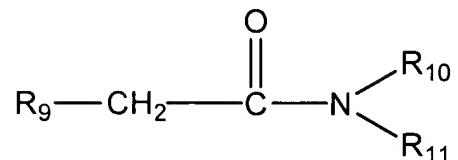
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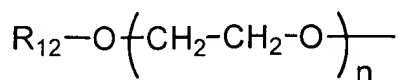


88. The method according to claim 57, wherein said at least one fatty amide is chosen from fatty amides of formula

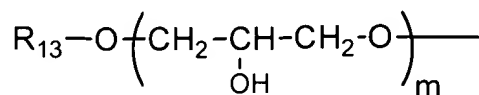


wherein:

- R<sub>9</sub> is chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; linear alkenyl groups comprising at least 4 carbon atoms, branched alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted; and alkoxyated alkyl groups of formulae



and



wherein:

-  $R_{12}$  and  $R_{13}$ , which may be identical or different, are each chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 4 carbon atoms, branched alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted;

-  $n$  ranges from 1 to 10; and

-  $m$  ranges from 1 to 6; and

-  $R_{10}$  and  $R_{11}$ , which may be identical or different, are each chosen from H; linear alkyl groups, branched alkyl groups and cyclic alkyl groups, wherein said alkyl groups are optionally substituted; and linear alkenyl groups, branched alkenyl groups and cyclic alkenyl groups, wherein said alkenyl groups are optionally substituted.

89. The method according to claim 88, wherein  $R_9$  is chosen from linear  $C_8$  to  $C_{22}$  alkyl groups, branched  $C_8$  to  $C_{22}$  alkyl groups and cyclic  $C_8$  to  $C_{22}$  alkyl groups, wherein said  $C_8$  to  $C_{22}$  alkyl groups are optionally substituted; and linear  $C_8$  to  $C_{22}$  alkenyl groups, branched  $C_8$  to  $C_{22}$  alkenyl groups and cyclic  $C_8$  to  $C_{22}$  alkenyl groups, wherein said  $C_8$  to  $C_{22}$  alkenyl groups are optionally substituted.

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90. The method according to claim 88, wherein  $R_{10}$  and  $R_{11}$  are each chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups, wherein said  $C_1$  to  $C_{22}$  alkyl groups are optionally substituted; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said  $C_1$  to  $C_{22}$  alkenyl groups are optionally substituted.

91. The method according to claim 88, wherein at least one of said  $R_{10}$  and said  $R_{11}$  is chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said alkyl groups and said alkenyl groups are substituted with at least one hydroxyl group.

92. The method according to claim 88, wherein at least one of said  $R_{10}$  and said  $R_{11}$  is chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said alkyl groups further comprise at least one ether group in the alkyl chain, and further wherein said alkenyl groups further comprise at least one ether group in the alkenyl chain.

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93. The method according to claim 57, wherein said at least one fatty amide is chosen from behenamide, cetyl-PG hydroxyethyl decanamide, cetyl-PG hydroxyethyl palmitamide, cocamide, dibutyl lauroyl glutamide, distearyl phthalic acid amide, lauramide, lauroyl methyl glucamide, myristoyl-PG hydroxyethyl decanamide, oleyl palmitamide, stearamide, tallow amide, trideceth-2 carboxamide monoethanolamine (trideceth-2 carboxamide MEA), trideceth-2 carboxamide diethanolamine (trideceth-2 carboxamide DEA), trideceth-2 carboxamide monoisopropanolamine (trideceth-2 carboxamide MIPA), and polyalkoxylated fatty amides.

94. The method according to claim 93, wherein said polyalkoxylated fatty amides are chosen from polyethoxylated fatty amides and polyglycerylated fatty amides.

95. The method according to claim 57, wherein said at least one cationic homopolymer is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

96. The method according to claim 95, wherein said at least one cationic homopolymer is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

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97. The method according to claim 96, wherein said at least one cationic homopolymer is present in an amount ranging from 0.25% to 2.5% by weight relative to the total weight of the composition.

98. The method according to claim 57, wherein said at least one fatty alcohol is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

99. The method according to claim 98, wherein said at least one fatty alcohol is present in an amount ranging from 0.1% to 8% by weight relative to the total weight of the composition.

100. The method according to claim 99, wherein said at least one fatty alcohol is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

101. The method according to claim 57, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

102. The method according to claim 101, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

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103. The method according to claim 102, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.2% to 2% by weight relative to the total weight of the composition.

104. The method according to claim 57, wherein said at least one fatty amide is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

105. The method according to claim 104, wherein said at least one fatty amide is present in an amount ranging from 0.1% to 8% by weight relative to the total weight of the composition.

106. The method according to claim 105, wherein said at least one fatty amide is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

107. The method according to claim 57, wherein said at least one oxidizing agent is chosen from hydrogen peroxides, bromate salts, percarbonate salts, perborate salts and enzymes.

108. The method according to claim 57, wherein said at least one oxidizing agent is present in an amount ranging from 0.1% to 20.0% by weight relative to the total weight of the composition.

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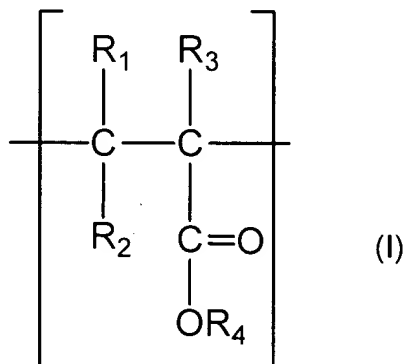
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109. The method according to claim 107, wherein said at least one oxidizing agent is present in an amount ranging from 0.5% to 12.0% by weight relative to the total weight of the composition.

110. A method for treating keratinous fibers comprising applying to said keratinous fibers at least one treatment composition comprising an oxidizing composition, wherein said oxidizing composition comprises:

(a) at least one cationic homopolymer comprising repeating units of formula

(I):



wherein:

-  $R_1$ ,  $R_2$ , and  $R_3$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and

-  $R_4$  is chosen from groups comprising at least one quaternary amino group;

(b) at least one fatty alcohol;

(c) at least one alkoxyated fatty alcohol; and

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(d) at least one fatty amide.

111. The method according to claim 110, wherein said at least one treatment composition is chosen from a dyeing composition, a bleaching composition, a permanent waving composition, and a relaxing composition.

112. The method according to claim 110, wherein said at least one cationic homopolymer, said at least one fatty alcohol, said at least one alkoxyated fatty alcohol, and said at least one fatty amide are present in a combined amount effective to provide physical stability to said oxidizing composition.

113. The method according to claim 110, wherein said alkyl groups of  $R_1$ ,  $R_2$  and  $R_3$  are chosen from linear  $C_1$  to  $C_{20}$  alkyl groups, branched  $C_1$  to  $C_{20}$  alkyl groups, and cyclic  $C_1$  to  $C_{20}$  alkyl groups, and further wherein said  $C_1$  to  $C_{20}$  alkyl groups are optionally substituted.

114. The method according to claim 110, wherein said alkenyl groups of  $R_1$ ,  $R_2$  and  $R_3$  are chosen from linear  $C_1$  to  $C_{20}$  alkenyl groups, branched  $C_1$  to  $C_{20}$  alkenyl groups and cyclic  $C_1$  to  $C_{20}$  alkenyl groups, and further wherein said  $C_1$  to  $C_{20}$  alkenyl groups are optionally substituted.

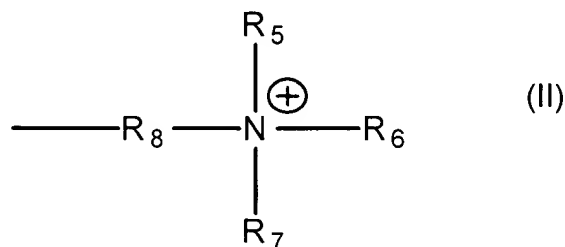
115. The method according to claim 110, wherein  $R_1$ ,  $R_2$ , and  $R_3$  are each H.

116. The method according to claim 110, wherein  $R_1$  is H,  $R_2$  is H, and  $R_3$  is  $CH_3$ .



117. The method according to claim 110, wherein, in the definition of  $R_4$ , said groups comprising at least one quaternary amino group are chosen from  $C_1$  to  $C_{20}$  alkyl quaternary amino groups.

118. The method according to claim 110, wherein in the definition of  $R_4$ , said groups comprising at least one quaternary amino group are chosen from compounds of formula (II):



wherein:

- $R_5$ ,  $R_6$  and  $R_7$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- $R_8$  is chosen from alkylene groups and alkenylene groups.

119. The method according to claim 118, wherein said alkyl groups of  $R_5$ ,  $R_6$ , and  $R_7$  are chosen from linear  $C_1$  to  $C_{20}$  alkyl groups, branched  $C_1$  to  $C_{20}$  alkyl groups and cyclic  $C_1$  to  $C_{20}$  alkyl groups, and further wherein said  $C_1$  to  $C_{20}$  alkyl groups are optionally substituted.

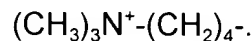
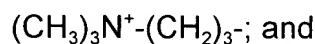
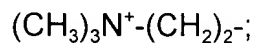
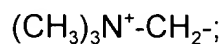
120. The method according to claim 119, wherein said alkenyl groups of  $R_5$ ,  $R_6$ , and  $R_7$  are chosen from linear  $C_1$  to  $C_{20}$  alkenyl chains, branched  $C_1$  to  $C_{20}$

alkenyl chains and cyclic C<sub>1</sub> to C<sub>20</sub> alkenyl chains, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkenyl groups are optionally substituted.

121. The method according to claim 119, wherein said alkylene groups of R<sub>8</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkylene groups, branched C<sub>1</sub> to C<sub>20</sub> alkylene groups and cyclic C<sub>1</sub> to C<sub>20</sub> alkylene groups, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkylene groups are optionally substituted.

122. The method according to claim 119, wherein said alkenylene groups of R<sub>8</sub> are chosen from linear C<sub>1</sub> to C<sub>20</sub> alkenylene chains, branched C<sub>1</sub> to C<sub>20</sub> alkenylene chains and cyclic C<sub>1</sub> to C<sub>20</sub> alkenylene chains, and further wherein said C<sub>1</sub> to C<sub>20</sub> alkenylene groups are optionally substituted.

123. The method according to claim 119, wherein said groups comprising at least one quaternary amino group are chosen from:



124. The method according to claim 119, wherein R<sub>5</sub> is a methyl group, R<sub>6</sub> is a methyl group, R<sub>7</sub> is an alkyl group chosen from linear unsubstituted C<sub>2</sub> to C<sub>10</sub> alkyl groups, and R<sub>8</sub> is an alkylene group chosen from linear unsubstituted C<sub>2</sub> to C<sub>10</sub> alkylene groups.

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125. The method according to claim 119, wherein  $R_5$ ,  $R_6$ , and  $R_7$  are each a methyl group, and  $R_8$  is an alkylene group chosen from linear  $C_2$  to  $C_{10}$  alkylene groups, branched  $C_2$  to  $C_{10}$  alkylene groups, and cyclic  $C_2$  to  $C_{10}$  alkylene groups.

126. The method according to claim 110, wherein said at least one cationic homopolymer is chosen from polyquaternium-37 homopolymers.

127. The method according to claim 110, wherein said at least one fatty alcohol comprises at least 8 carbon atoms.

128. The method according to claim 127, wherein said at least one fatty alcohol comprises at least 10 carbon atoms.

129. The method according to claim 128, wherein said at least one fatty alcohol comprises at least 12 carbon atoms.

130. The method according to claim 110, wherein said at least one fatty alcohol is chosen from  $C_9$ - $C_{11}$  alcohols,  $C_{12}$ - $C_{13}$  alcohols,  $C_{12}$ - $C_{15}$  alcohols,  $C_{12}$ - $C_{16}$  alcohols, and  $C_{14}$ - $C_{15}$  alcohols.

131. The method according to claim 110, wherein said at least one fatty alcohol is chosen from arachidyl alcohol, behenyl alcohol, caprylic alcohol, cetearyl alcohol, cetyl alcohol, coconut alcohol, decyl alcohol, hydrogenated tallow alcohol, jojoba alcohol, lauryl alcohol, myristyl alcohol, oleyl alcohol, palm alcohol, palm kernel alcohol, stearyl alcohol, tallow alcohol, and tridecyl alcohol.

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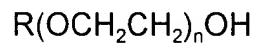
132. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol is chosen from fatty alcohols comprising at least one polyethylene glycol ether.

133. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol comprises at least 8 carbon atoms.

134. The method according to claim 133, wherein said at least one alkoxyated fatty alcohol comprises at least 10 carbon atoms.

135. The method according to claim 134, wherein said at least one alkoxyated fatty alcohol comprises at least 12 carbon atoms.

136. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol is chosen from ethoxylated fatty alcohols of formula



wherein:

- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and

- n ranges from 2 to 100 .

137. The method according to claim 136, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

138. The method according to claim 136, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkenyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkenyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkenyl groups.

139. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol is chosen from alkoxy esters of polyglyceryl of the formula



and alkoxy esters of polyglyceryl of the formula



wherein:

- R is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups

comprising at least 5 carbon atoms, wherein said alkenyl groups optionally substituted;

- R' is chosen from H; linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups optionally substituted; and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted; and

- n ranges from 1 to 30,

with the proviso that at least one of said R' is chosen from linear alkyl groups comprising at least 5 carbon atoms, branched alkyl groups comprising at least 5 carbon atoms, and cyclic alkyl groups comprising at least 5 carbon atoms, wherein said alkyl groups are optionally substituted, and linear alkenyl groups comprising at least 5 carbon atoms, branched alkenyl groups comprising at least 5 carbon atoms, and cyclic alkenyl groups comprising at least 5 carbon atoms, wherein said alkenyl groups are optionally substituted.

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140. The method according to claim 139, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkyl groups.

141. The composition according to claim 139, wherein R is chosen from linear C<sub>8</sub> to C<sub>22</sub> alkenyl groups, branched C<sub>8</sub> to C<sub>22</sub> alkenyl groups, and cyclic C<sub>8</sub> to C<sub>22</sub> alkenyl groups.

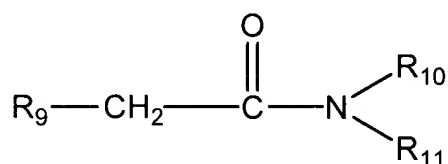
142. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol is chosen from cetareth-2, cetareth-3, cetareth-4, cetareth-5, cetareth-6, cetareth-7, cetareth-8, cetareth-9, cetareth-10, cetareth-11, cetareth-12, cetareth-13, cetareth-14, cetareth-15, cetareth-16, cetareth-17, cetareth-18, cetareth-20, cetareth-22, cetareth-23, cetareth-24, cetareth-25, cetareth-27, cetareth-28, cetareth-29, cetareth-30, cetareth-33, cetareth-34, cetareth-40, cetareth-50, cetareth-55, cetareth-60, cetareth-80, cetareth-100, laureth-1, laureth-2, laureth-3, laureth-4, laureth-5, laureth-6, laureth-7, laureth-8, laureth-9, laureth-10, laureth-11, laureth-12, laureth-13, laureth-14, laureth-15, laureth-16, laureth-20, laureth-23, laureth-25, laureth-30, laureth-40, deceth-3, deceth-5, oleth-5, oleth-30, steareth-2, steareth-10, steareth-20, steareth-100, cetylsteareth-12, cetareth-5, cetareth-5, polyglyceryl 4-lauryl ether, polyglyceryl 4-oleyl ether, polyglyceryl 2-oleyl ether, polyglyceryl 2-cetyl ether, polyglyceryl 6-cetyl ether, polyglyceryl 6-oleylcetyl ether, polyglyceryl 6-octadecyl

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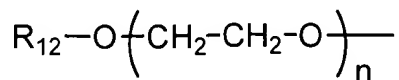
ether, C<sub>9</sub>-C<sub>11</sub> pareth-3, C<sub>9</sub>-C<sub>11</sub> pareth-6, C<sub>11</sub>-C<sub>15</sub> pareth-3, C<sub>11</sub>-C<sub>15</sub> pareth-5, C<sub>11</sub>-C<sub>15</sub> pareth-12, C<sub>11</sub>-C<sub>15</sub> pareth-20, C<sub>12</sub>-C<sub>15</sub> pareth-9, C<sub>12</sub>-C<sub>15</sub> pareth-12, and C<sub>22</sub>-C<sub>24</sub> pareth-33.

143. The method according to claim 110, wherein said at least one fatty amide is chosen from fatty amides of formula



wherein:

- R<sub>9</sub> is chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; linear alkenyl groups comprising at least 4 carbon atoms, branched alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted; and alkoxyated alkyl groups of formulae

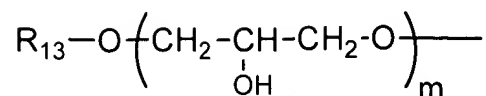


and

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wherein:

- $R_{12}$  and  $R_{13}$ , which may be identical or different, are each chosen from linear alkyl groups comprising at least 4 carbon atoms, branched alkyl groups comprising at least 4 carbon atoms, and cyclic alkyl groups comprising at least 4 carbon atoms, wherein said alkyl groups are optionally substituted; and linear alkenyl groups comprising at least 4 carbon atoms, branched alkenyl groups comprising at least 4 carbon atoms, and cyclic alkenyl groups comprising at least 4 carbon atoms, wherein said alkenyl groups are optionally substituted;
- $n$  ranges from 1 to 10; and
- $m$  ranges from 1 to 6; and

-  $R_{10}$  and  $R_{11}$ , which may be identical or different, are each chosen from H; linear alkyl groups, branched alkyl groups and cyclic alkyl groups, wherein said alkyl groups are optionally substituted; and linear alkenyl groups, branched alkenyl groups and cyclic alkenyl groups, wherein said alkenyl groups are optionally substituted.

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144. The method according to claim 143, wherein  $R_9$  is chosen from linear  $C_8$  to  $C_{22}$  alkyl groups, branched  $C_8$  to  $C_{22}$  alkyl groups and cyclic  $C_8$  to  $C_{22}$  alkyl groups, wherein said  $C_8$  to  $C_{22}$  alkyl groups are optionally substituted; and linear  $C_8$  to  $C_{22}$  alkenyl groups, branched  $C_8$  to  $C_{22}$  alkenyl groups and cyclic  $C_8$  to  $C_{22}$  alkenyl groups, wherein said  $C_8$  to  $C_{22}$  alkenyl groups are optionally substituted.

145. The method according to claim 143, wherein  $R_{10}$  and  $R_{11}$  are each chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups, wherein said  $C_1$  to  $C_{22}$  alkyl groups are optionally substituted; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said  $C_1$  to  $C_{22}$  alkenyl groups are optionally substituted.

146. The method according to claim 143, wherein at least one of said  $R_{10}$  and said  $R_{11}$  is chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups; and linear  $C_1$  to  $C_{22}$  alkenyl groups, branched  $C_1$  to  $C_{22}$  alkenyl groups and cyclic  $C_1$  to  $C_{22}$  alkenyl groups, wherein said alkyl groups and said alkenyl groups are substituted with at least one hydroxyl group.

147. The method according to claim 143, wherein at least one of said  $R_{10}$  and said  $R_{11}$  is chosen from linear  $C_1$  to  $C_{22}$  alkyl groups, branched  $C_1$  to  $C_{22}$  alkyl groups and cyclic  $C_1$  to  $C_{22}$  alkyl groups; and linear  $C_1$  to  $C_{22}$  alkenyl groups,

branched C<sub>1</sub> to C<sub>22</sub> alkenyl groups and cyclic C<sub>1</sub> to C<sub>22</sub> alkenyl groups, wherein said alkyl groups further comprise at least one ether group in the alkyl chain, and further wherein said alkenyl groups further comprise at least one ether group in the alkenyl chain.

148. The method according to claim 110, wherein said at least one fatty amide is chosen from behenamide, cetyl-PG hydroxyethyl decanamide, cetyl-PG hydroxyethyl palmitamide, cocamide, dibutyl lauroyl glutamide, distearyl phthalic acid amide, lauramide, lauroyl methyl glucamide, myristoyl-PG hydroxyethyl decanamide, oleyl palmitamide, stearamide, tallow amide, trideceth-2 carboxamide monoethanolamine (trideceth-2 carboxamide MEA), trideceth-2 carboxamide diethanolamine (trideceth-2 carboxamide DEA), trideceth-2 carboxamide monoisopropanolamine (trideceth-2 carboxamide MIPA), and polyalkoxylated fatty amides.

149. The method according to claim 148, wherein said polyalkoxylated fatty amides are chosen from polyethoxylated fatty amides and polyglycerylated fatty amides.

150. The method according to claim 110, wherein said at least one cationic homopolymer is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

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151. The method according to claim 150, wherein said at least one cationic homopolymer is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

152. The method according to claim 151, wherein said at least one cationic homopolymer is present in an amount ranging from 0.25% to 2.5% by weight relative to the total weight of the composition.

153. The method according to claim 110, wherein said at least one fatty alcohol is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

154. The method according to claim 153, wherein said at least one fatty alcohol is present in an amount ranging from 0.1% to 8% by weight relative to the total weight of the composition.

155. The method according to claim 154, wherein said at least one fatty alcohol is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

156. The method according to claim 110, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

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157. The method according to claim 156, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

158. The method according to claim 157, wherein said at least one alkoxyated fatty alcohol is present in an amount ranging from 0.2% to 2% by weight relative to the total weight of the composition.

159. The method according to claim 110, wherein said at least one fatty amide is present in an amount ranging from 0.05% to 10% by weight relative to the total weight of the composition.

160. The method according to claim 159, wherein said at least one fatty amide is present in an amount ranging from 0.1% to 8% by weight relative to the total weight of the composition.

161. The method according to claim 160, wherein said at least one fatty amide is present in an amount ranging from 0.2% to 4% by weight relative to the total weight of the composition.

162. The method according to claim 110, wherein said at least one oxidizing agent is chosen from hydrogen peroxides, bromate salts, percarbonate salts, perborate salts and enzymes.

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163. The method according to claim 110, wherein said at least one oxidizing agent is present in an amount ranging from 0.1% to 20.0% by weight relative to the total weight of the composition.

164. The method according to claim 163, wherein said at least one oxidizing agent is present in an amount ranging from 0.5% to 12.0% by weight relative to the total weight of the composition.

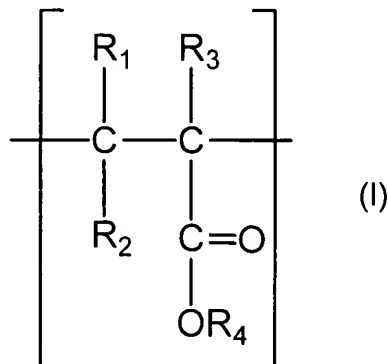
165. The method according to claim 110, wherein said keratinous fibers are chosen from hair, eyelashes, and eyebrows.

166. A multi-compartment kit for treating keratinous fibers, said kit comprising at least two separate compartments, wherein

a first compartment comprises an oxidizing composition, said oxidizing composition comprising:

(a) at least one cationic homopolymer comprising repeating units of formula

(I):



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wherein:

- $R_1$ ,  $R_2$ , and  $R_3$ , which may be identical or different, are each chosen from H, alkyl groups, and alkenyl groups; and
- $R_4$  is chosen from groups comprising at least one quaternary amino group;
  - (b) at least one fatty alcohol;
  - (c) at least one alkoxyated fatty alcohol;
  - (d) at least one fatty amide; and

a second compartment comprising a composition for treating said keratinous fibers.

167. A multi-compartment kit according to claim 166, wherein said composition for treating said keratinous fibers is chosen from a dyeing composition, a bleaching composition, a permanent waving composition, and a relaxing composition.

168. A multi-compartment kit according to claim 166, wherein said keratinous fibers are chosen from hair, eyelashes, and eyebrows.

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